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propaganda available in our complex society, the approach to marriage on the part of the great mass of people could be changed irreducibly for the better within the span of a single generation. It would become impossible, or at least excessively rare, for couples to marry without knowing the essential facts about each other's physical and mental health and that of their families. It would become as unusual in great cities as it still is in many rural areas, where families have been long settled and lived in neigh-

bourly intimacy for many generations, for marriages to occur between couples who have never inquired into or met each other's families. The eugenic objective would be achieved when it became one of the assumptions of our society, so deeply rooted that no one would think of questioning it, that marriage involves a union not merely of individuals but of families; and one not merely "ordained for mutual society, help and comfort," but also for the procreation of a healthy posterity.

POPULATION STUDIES

A Quarterly Journal of Demography

Editor : D. V. GLASS

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enabled them to resist and overcome the opposition of an *unfriendly* society. . . . There would be my horse before the cart.

Kantsaywhere

To end, a word about Galton's own Utopia, Kantsaywhere—known to me only through Dr. Blacker's very lucid summaries. But is it not by the way very suitable, and very appropriate, that Galton himself should have been born into just one of those Quaker families we have been discussing, whose members picked their husbands and wives with such a care for moral compatibility? Indeed, he was descended from the greatest of Quaker sires, Robert Barclay.

His Utopia was ruled by an academic Senate with an inner cabinet of three. Senators were people who had gained more than seventy marks in four tests: anthropometric, æsthetic and literary, medical, ancestral. It is a notion full of interesting possibilities. And after all, half marks for ancestors would not disqualify anyone who came out well in the other tests. Every

lineage has to have its genesis. Even in an un-Utopian society an ambitious man can say with Napoleon, "I am an ancestor," but in Kantsaywhere it would be unnecessary—and for that matter extremely difficult—for him to convulse the world in order to prove it. One of the beauties of Galton's notion is that it would mean a restoration of pride of race, revised, and would give people such a sense of their inborn dignity that they would not countenance Napoleonic or Hitlerian pretensions. Public opinion would be intelligent.

Public opinion is something we have seen a good deal moulded one way and another in the last thirty years, largely in the interests of that most formidable of institutions, the modern State. "Improve man . . . this is the only reform which has no correlative drawback." I conclude as I began, with these wise words of Amiel's. "Improve man. . . . Institutions are worth no more than the value of the man who uses them."

It is going to be hard to persuade people of it, but we must try.

PHYSIOLOGICAL ZOÖLOGY

Edited by Warder C. Allee, the University of Chicago.

In the January 1949 number:

ANALYSIS OF SOME PHASES OF MELANOBLAST MIGRATION IN BARRED PLYMOUTH ROCK EMBRYOS. By MARJORIE H. FOX.

DOMINANCE IN WINTER FLOCKS OF JUNCOS AND TREE SPARROWS. By WINIFRED S. SABINE.

GROWTH OF PROTOZOA IN GLASSWARE CLEANED WITH SULPHURIC ACID-POTASSIUM BICHROMATE SOLUTION. By HENRY W. SCHOENBORN.

THE EFFECT OF SEITZ FILTRATION ON THE PROTEIN CONTENT AND PRECIPITIN REACTION OF DILUTED ANTIGEN SOLUTIONS. By ELEANOR DILKS and HAROLD R. WOLFE.

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what she had desired. Such a claim might perhaps succeed if owing to the doctor's negligence the unfortunate woman found herself with a baby suffering from some hereditary disease or abnormality: if her objection was merely to the baby's general character or physical appearance a court would probably refuse to entertain the action, but that would not make the social problem underlying it any the less difficult. To take the most obviously controversial example, what are the rights as between the blonde Nordic lady who feels miserable and humiliated at having a child of unmistakable Jewish paternity and the liberal-minded doctor who thinks it his duty to do everything to eliminate racial differences and to discourage racial prejudice? To say that no doctor would be guilty of such an appalling lack of sensibility as is implied by the example I have given is merely to restate the problem in a less dramatic form: it still remains true that

whereas artificial insemination is put forward as a means by which a childless wife can have a child without embarking on a love affair which may destroy her relationship with her husband, it involves her abandoning the right to choose the father of her child and in the end may have even more disastrous consequences to the marriage. Although I may seem to have reached this conclusion by a somewhat indirect route, this seems the real objection to artificial insemination and one which to most people will seem insurmountable, namely that all but a very few women wish to select the fathers of their children, which becomes impossible if artificial insemination is practised under the conditions of secrecy which are ordinarily advocated. If, on the other hand, the wife is to be allowed to know and to select the father of the artificially produced child, the operation will to the vast majority of persons seem pointless.

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and discussion. The old Malthusian controversy was being revived, and two schools were discernible, one in effect declaring that Malthus was right after all and the other continuing to sustain that he was wrong. None denied that the population of the world, which had probably doubled during General Osborn's lifetime, would continue to increase; indeed, it might even double again in thirty years. None doubted that the world's food-producing resources were being insufficiently conserved. But there were differences of opinion on how far improved agricultural and other techniques could increase yields.

It was a matter of time only before the fact was grasped that some adjustment was necessary between the world's food resources and its population. Once the quantitative aspect was duly appreciated, the qualitative would emerge of its own accord. Then would the eugenic argument tell. General Osborn concluded his talk by stressing the import-

ance of appropriately timing propaganda. A publicity campaign in favour of eugenics, if launched at the wrong season, would encounter insurmountable prejudices and do more harm than good. Further large-scale sociological investigations, such as that reported by Professor Godfrey Thomson on the intelligence of eleven-year-old Scottish children, were needed. The time for propaganda would come later.

In the discussion which followed, General Osborn dealt ably with miscellaneous questions about the activities to-day of the American Eugenics Society, population policies in Japan and Porto Rico, courses in eugenics at American universities, the place of birth control in eugenics, the lack of support for eugenics among geneticists, and the Eugenics Society of Northern California.

A vote of thanks, proposed by Mr. Eley, was warmly endorsed by an appreciative and grateful audience. C. P. BLACKER.

SOCIOLOGICAL REVIEW

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form to those of chemistry and physics." Valuable as such concepts have proved to be, they have not the same heuristic value and they cannot be manipulated by the techniques which mathematics offers. Their validity depends constantly upon the extent to which they are verifiable on the plane of observed facts. Dr. Glover contends that the basic concepts on which psycho-analytical theory is founded "can and should be used as a discipline to control any hypothetical reconstruction of mental development and all ætiological theories that cannot be verified by clinical psycho-analysis." He considers that all theories about the infant before the age of two should be subject to this discipline, since before that age clinical analysis is not possible. This would probably commend itself to most, although exponents of other schools can point out that, although clinical analysis is not possible, the child's behaviour and play are open to observation.

Nevertheless, if there remain any scientific doubts about the basic mental concepts of the analytical school, Dr. Glover's injunction implies an attitude of mind dangerously near to mediæval authoritarianism.

Those who look to psycho-analysis to provide the answers which no other technique can give, should rightly demand that all conceptual developments, all theories, must submit to a rigid scientific discipline by "a constant dipping to the level of experience and experiment," as advocated by Dr. Hart. If the clinical technique is useless for the investigation of the infant, then it should be modified or abandoned. The private worlds, in which metapsychologists communicate in private languages, the meaning of whose words vary with the speaker, can only bring bewilderment to those who anxiously await the establishment of psychology as a biological science.

DENIS HILL.

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